

IN THE CLAIMS

Claims 1-43 (Cancelled)

44.(New) A charge removing unit it for charge appearance semiconductor substrates, which comprises:

a heating and cooling apparatus which comes in contact with a rear face opposite to a front face as a circuit-formed face of the charge appearance semiconductor substrate which generates electric charge in consequence of a temperature change, thereby removing electric charge generated to the substrate as a result of a decrease in temperature in cooling the substrate after heating the substrate; and

a controller for executing a decrease in temperature control for cooling the substrate to the heating and cooling apparatus.

45.(New) A charge appearance semiconductor substrate which comprises:

a region for charge removal which is formed to a front face as a circuit-formed face of the charge appearance semiconductor substrate which generates electric charge in consequence of a temperature change, and which is formed of a conductor for eliminating electric charge generated to the substrate; and

dicing lines, connected to the region for charge removal, for dicing circuit-formed parts formed to the front face from the substrate.

46.(New) A charge appearance semiconductor substrate, which has an amount of electric charge of not larger than $\pm 200V$ because of eliminating electric charge generated to the charge appearance semiconductor substrate which generates electric charge in consequence of a temperature change.

47.(New) A charge removing unit for charge appearance semiconductor substrates, which comprises:

a controller for executing a decrease in temperature control to eliminate electric charge generated as a result of a decrease in temperature in cooling after heating the charge appearance semiconductor substrate which generates electric charge in consequence of a temperature change; and

a heating and cooling apparatus for heating the substrate in a non-contact state to the substrate and cooling the substrate in accordance with the decrease in temperature control by the controller after the cooling.